



Technical Data Sheet for BIAXIS – CT (Chemically Treated) Films

General Properties	Units	BIAXIS 10 -	BIAXIS 12 -	BIAXIS 15 -	BIAXIS 25 -	Standard / Test Method
Thickness	Gauge	40 ± 3%	48 ± 3%	60 ± 3%	100 ± 3%	Basis Weight (ABI)
Yield	in ² / lb.	61,200 ± 3%	51,000 ± 3%	40,800 ± 3%	24,500 ± 3%	Calculated
Melting Point	°F	428 ± 4	428 ± 4	428 ± 4	428 ± 4	ISO 3146-C / DSC
Dimensional Stability	% (MD / TD)	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	320°F, 5 min (ABI)
Adhesion Properties						
Ink Adhesion	g / inch	> 1000	> 1000	> 1000	> 1000	180° Peel Test, dry or wet (ABI)
Ink Transfer	%	< 2	< 2	< 2	< 2	180° Peel Test, dry or wet (ABI)
Mechanical Properties						
Tensile Strength	psi	> 32,000	> 32,000	> 32,000	> 32,000	ASTM D 882
Elongation at Break	% (MD / TD)	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	ASTM D 882
Puncture Resistance	lbf	> 2.0	> 2.9	> 3.6	> 6.1	Pointed Probe (ABI)
Flex-Crack	holes / 15.5 in ²	< 1	< 1	< 1	< 2	900 cycles (ABI)
Surface Properties						
COF (film to film)	(static / kinetic)	< 0.8 / < 0.8	< 0.8 / < 0.8	< 0.8 / < 0.8	< 0.8 / < 0.8	ASTM D 1894
(film to metal)	(static / kinetic)	< 0.4 / < 0.4	< 0.4 / < 0.4	< 0.4 / < 0.4	< 0.4 / < 0.4	ASTM D 1894
Surface Tension (treated / non-treated)	dynes / cm	> 48 / > 38	> 48 / > 38	> 48 / > 38	> 48 / > 38	ASTM D 2578
Optical Properties						
Haze	%	< 3	< 4	< 4	< 4	ASTM D 1003
Transmittance	%	> 92	> 92	> 92	> 92	ASTM D 1003
Barrier Properties						
O ₂ Transmission Rate	cm ³ / 100in ² / 24h	< 3.0	< 2.6	< 2.3	< 1.3	73°F, 50% RH; ASTM D 3985

Recommendations and data given are based on experience to date. No liability can be assumed in connection with their usage.



Technical Data Sheet for BIAxis – CT (Chemically Treated) Films

General Properties	Units	BIAxis 10 -	BIAxis 12 -	BIAxis 15 -	BIAxis 25 -	Standard / Test Method
Thickness	µm	10 ± 3%	12 ± 3%	15 ± 3%	25 ± 3%	Basis Weight (ABI)
Yield	m ² / kg	87.0 ± 3%	72.5 ± 3%	58.0 ± 3%	34.8 ± 3%	Calculated
Melting Point	°C	220 ± 2	220 ± 2	220 ± 2	220 ± 2	ISO 3146-C / DSC
Dimensional Stability	% (MD / TD)	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	160°F, 5 min (ABI)
Adhesion Properties						
Ink Adhesion	g / cm	> 400	> 400	> 400	> 400	180° Peel Test, dry or wet (ABI)
Ink Transfer	%	< 2	< 2	< 2	< 2	180° Peel Test, dry or wet (ABI)
Mechanical Properties						
Tensile Strength	MPa	> 220	> 220	> 220	> 220	ASTM D 882
Elongation at Break	% (MD / TD)	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	ASTM D 882
Puncture Resistance	N	> 8	> 13	> 16	> 27	Pointed Probe (ABI)
Flex-Crack	holes / dm ²	< 1	< 1	< 1	< 2	900 cycles (ABI)
Surface Properties						
COF (film to film)	(static / kinetic)	< 0.8 / < 0.8	< 0.8 / < 0.8	< 0.8 / < 0.8	< 0.8 / < 0.8	ASTM D 1894
COF (film to metal)	(static / kinetic)	< 0.4 / < 0.4	< 0.4 / < 0.4	< 0.4 / < 0.4	< 0.4 / < 0.4	ASTM D 1894
Surface Tension (treated / non-treated)	dynes / cm	> 48 / > 38	> 48 / > 38	> 48 / > 38	> 48 / > 38	ASTM D 2578
Optical Properties						
Haze	%	< 3	< 4	< 4	< 4	ASTM D 1003
Transmittance	%	> 92	> 92	> 92	> 92	ASTM D 1003
Barrier Properties						
O ₂ Transmission Rate	cm ³ / m ² / 24h	< 46.5	< 40	< 36	< 20	23°C, 50% RH; ASTM D 3985

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